artdaq Utilities - Support #22236

Request for assistance in running the simple_subsystems sample configuration

03/28/2019 11:01 AM - Kurt Biery

Status:	Closed	**Start date:**	03/28/2019
Priority:	Normal	**Due date:**	
Assignee:	Eric Flumerfelt	**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:	artdaq_daqinterface v3_07_00	**Spent time:**	0.00 hour
Experiment:	-	**Co-Assignees:**	

Description

Hi,
With an artdaq v3_04_00 -based artdaq-demo system, I tried running the following command:

- sh ./run_demo.sh --config simple_subsystems --bootfile
  \`pwd\`/artdaq-utilities-daqinterface/simple_test_config/simple_subsystems/boot.txt --comps component01 component02
  component03 --

The system was able to boot, but the following error was reported as the configurations were being prepared:

Obtaining FHiCL documents...done (0.1 seconds).
Bookkeeping the FHiCL documents...Traceback (most recent call last):
File "/home/biery/simpSubTest/artdaq-utilities-daqinterface/rc/control/daqinterface.py", line 1617, in do_config
self.bookkeeping_for_fhicl_documents()
File "/home/biery/simpSubTest/artdaq-utilities-daqinterface/rc/control/bookkeeping.py", line 184, in
bookkeeping_for_fhicl_documents_artdaq_v3_base
expected_fragments_per_event[ss] = calculate_expected_fragments_per_event(ss, subsystem_fragment_count)
File "/home/biery/simpSubTest/artdaq-utilities-daqinterface/rc/control/bookkeeping.py", line 162, in
calculate_expected_fragments_per_event
count += calculate_expected_fragments_per_event(self.subsystems[ss].source, subsystem_fragment_count)
TypeError: unsupported operand type(s) for +=: 'NoneType' and 'int'

Is there something in the configuration that I need to customize? Or something in the run_demo command string that I need to
change?
Thanks a bunch,
Kurt

History

#1 - 03/28/2019 11:23 AM - Eric Flumerfelt

- Assignee set to Eric Flumerfelt

- Status changed from New to Resolved

If you have a relatively recent version of run_demo.sh, you can add the --brlist
\`pwd\`/artdaq-utilities-daqinterface/simple_test_config/simple_subsystems/known_boardreaders_list_example to your run_demo command line. I have
made some changes on branch artdaq-utilities-daqinterface:feature/22236_SimpleSubsystems_Fixes which resolves the error that occurs if there are
no BoardReaders in a subsystem. I have also added component_subsystem_2 to the default known_boardreaders_list_example, so that with these
changes, the example can be run with --comps component01 component02 component_subsystem_2 --.

#2 - 03/28/2019 12:50 PM - Kurt Biery

Excellent, thanks!

I added an initial README for the simple_subsystems sample config on this branch (to help me remember how to run it in the future).

#3 - 04/01/2019 12:21 PM - Kurt Biery

I have committed two new subsystem-related sample configurations to the "develop" branch of artdaq-utilities-daqinterface and merged these
changes into the feature/22236_SimpleSubsystems_Fixes branch.

- pdune_swtrig helps to show how a 2-subsystem system could provide initial DFO functionality for upcoming protoDUNE tests
- dune_sample_system is an attempt to show how a multi-subsystem system might be used to test the use of artdaq processes within the data
  selection (trigger) part of the DAQ for DUNE

I believe that it is the second config that caused me to realize that the fix that Eric already committed to bookkeeping.py on the feature/22236_SimpleSubsystems_Fixes branch also needs to be present in the function that calculates the max event size. I have made that change and committed it on the same branch.

Thinking about the change that I made... I'm not sure that a default of zero is the right choice, so it would be great if someone who understands the bookkeeping code well will review this change.

#4 - 12/10/2019 11:52 AM - Eric Flumerfelt

- Target version set to artdaq_daqinterface v3_07_00

- Status changed from Resolved to Closed

Actually released much before v3_07_00.